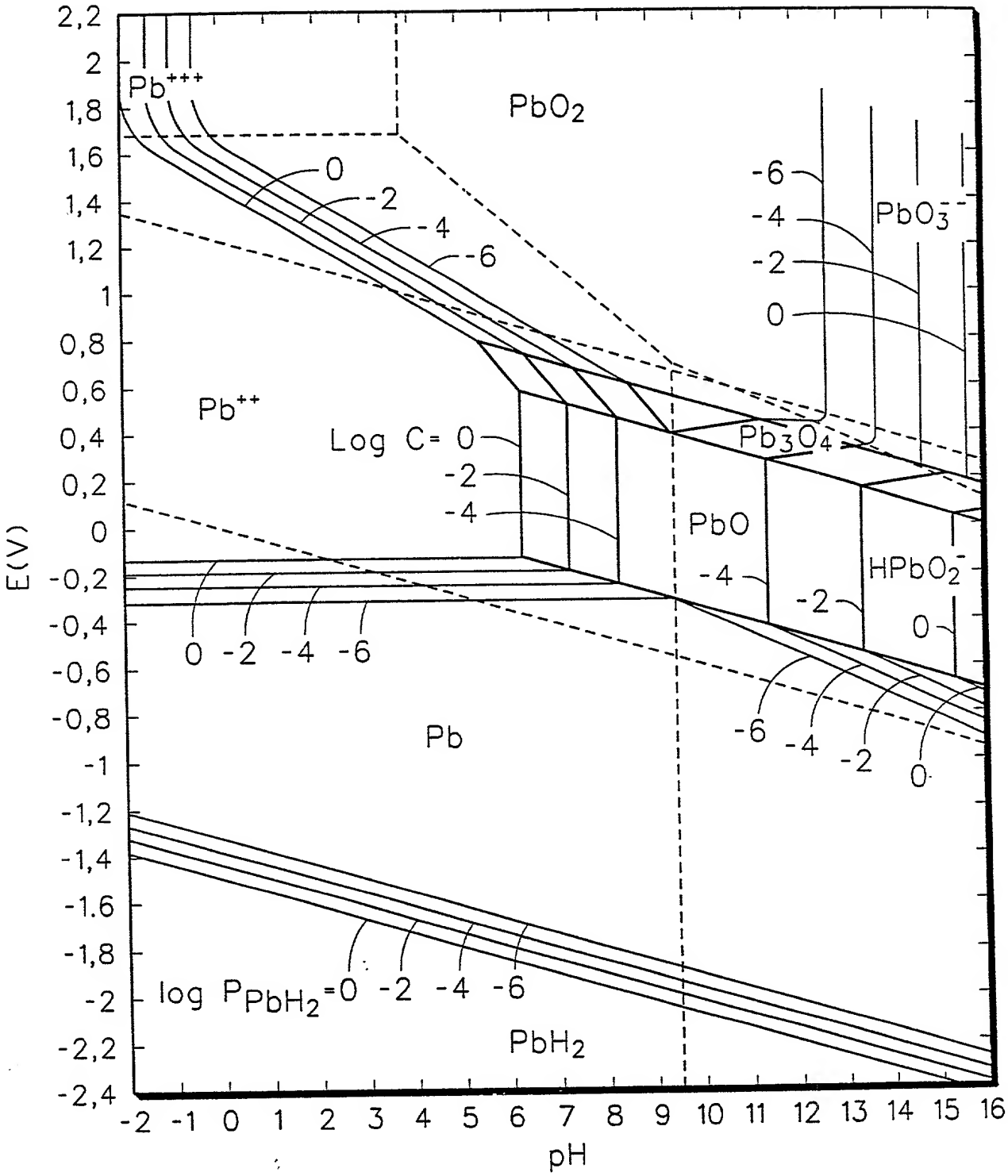
2,2
2
1,8
1,6
1,4
1,2
1
0,8
0,6
0,4
0,2
0
-0,2
-0,4
-0,6
-0,8
-1
-1,2
-1,4
-1.6
-1,8
-2
-2,2
-2,4
E(V)
-2 -1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
pH
Pb+++
PbO2
0
-2
-4
-6
-6
-4
-2
0
PbO3--
Pb++
Log C= 0
-2
-4
Pb3O4
PbO
-4
-2
0
HPbO2-
0 -2 -4 -6
Pb
-6 -4 -2 0
log PPbH2=0 -2 -4 -6
PbH2

FIG. 1

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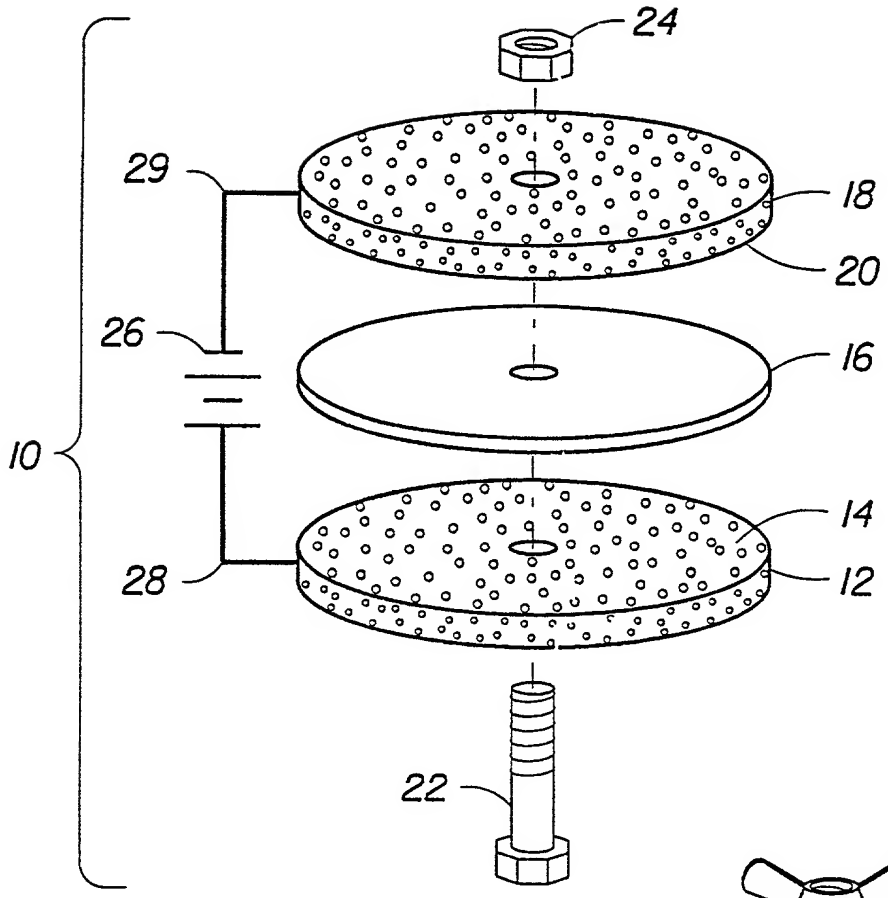

FIG. 2

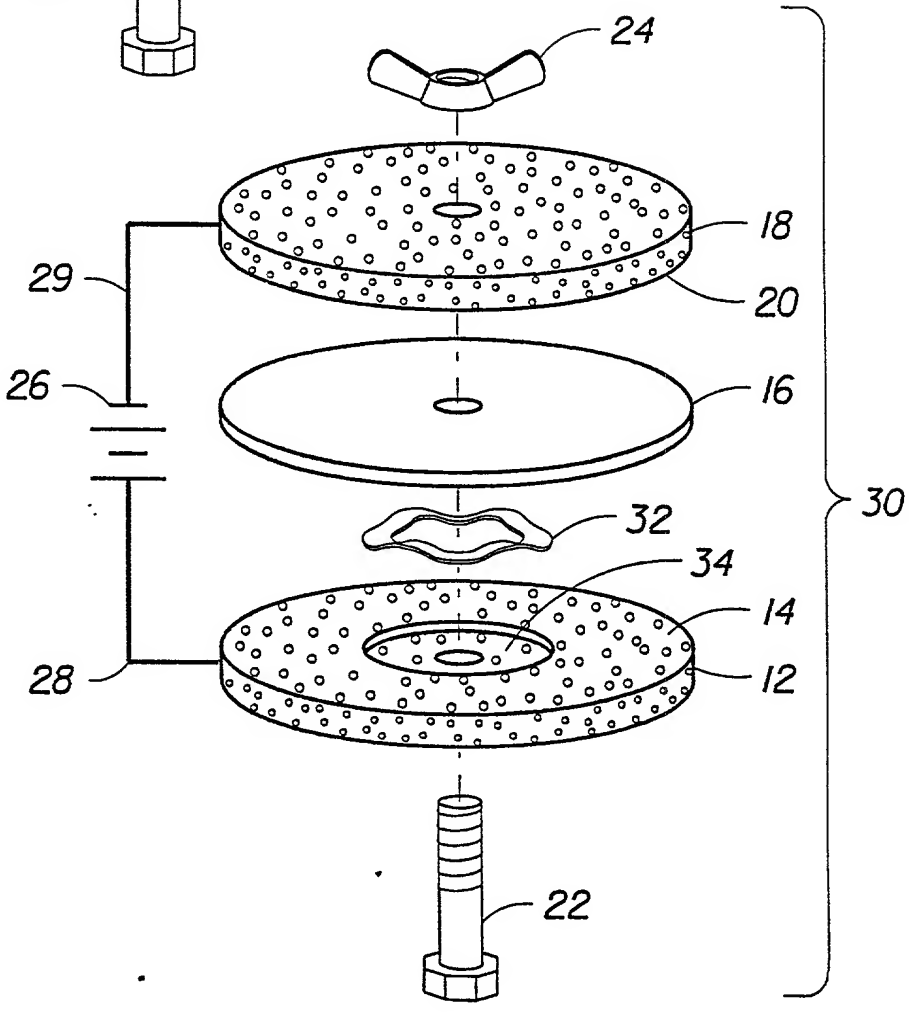

FIG. 3

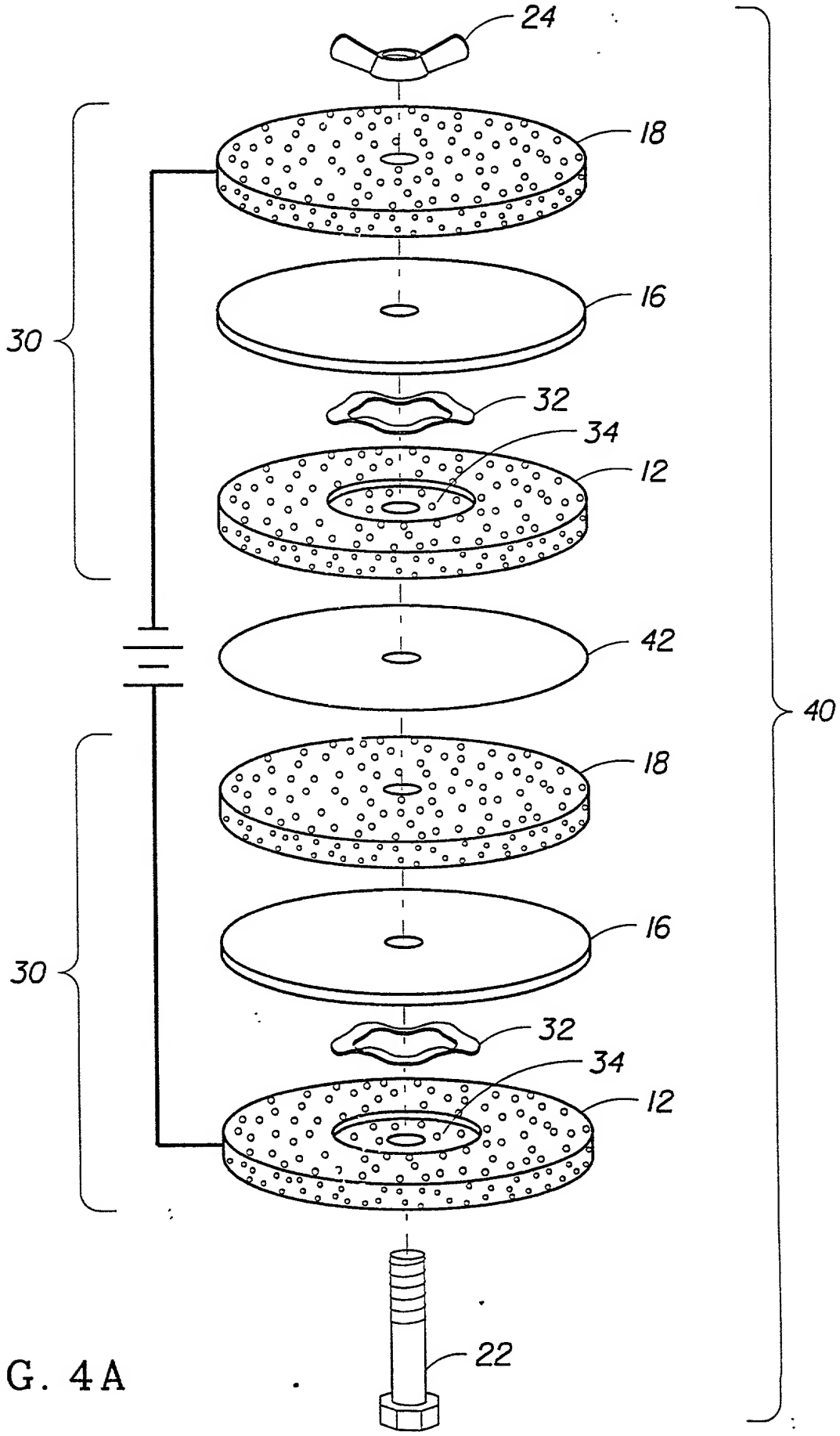

FIG. 4A

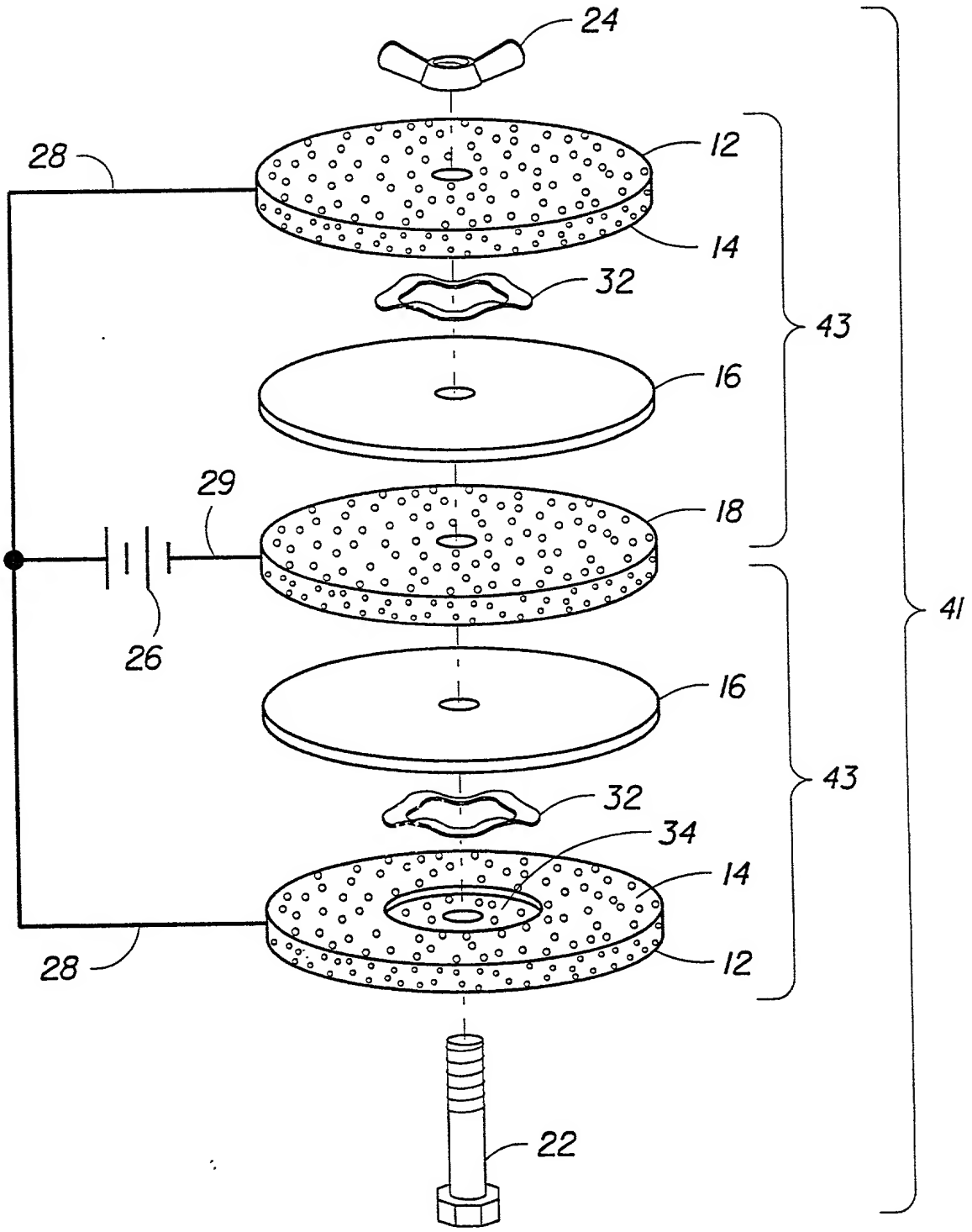

FIG. 4B

4,005,945 - 4,005,945

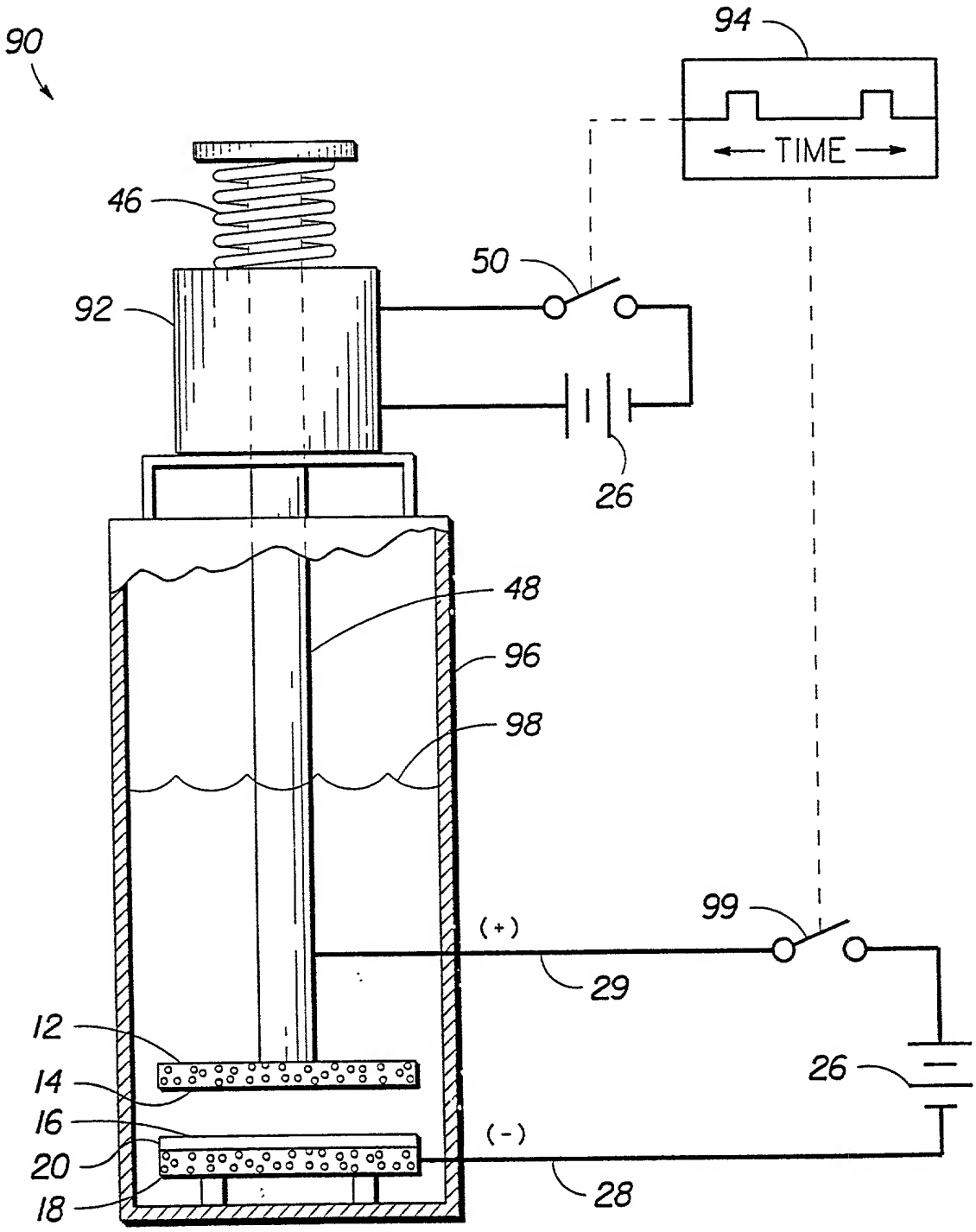

FIG. 5A

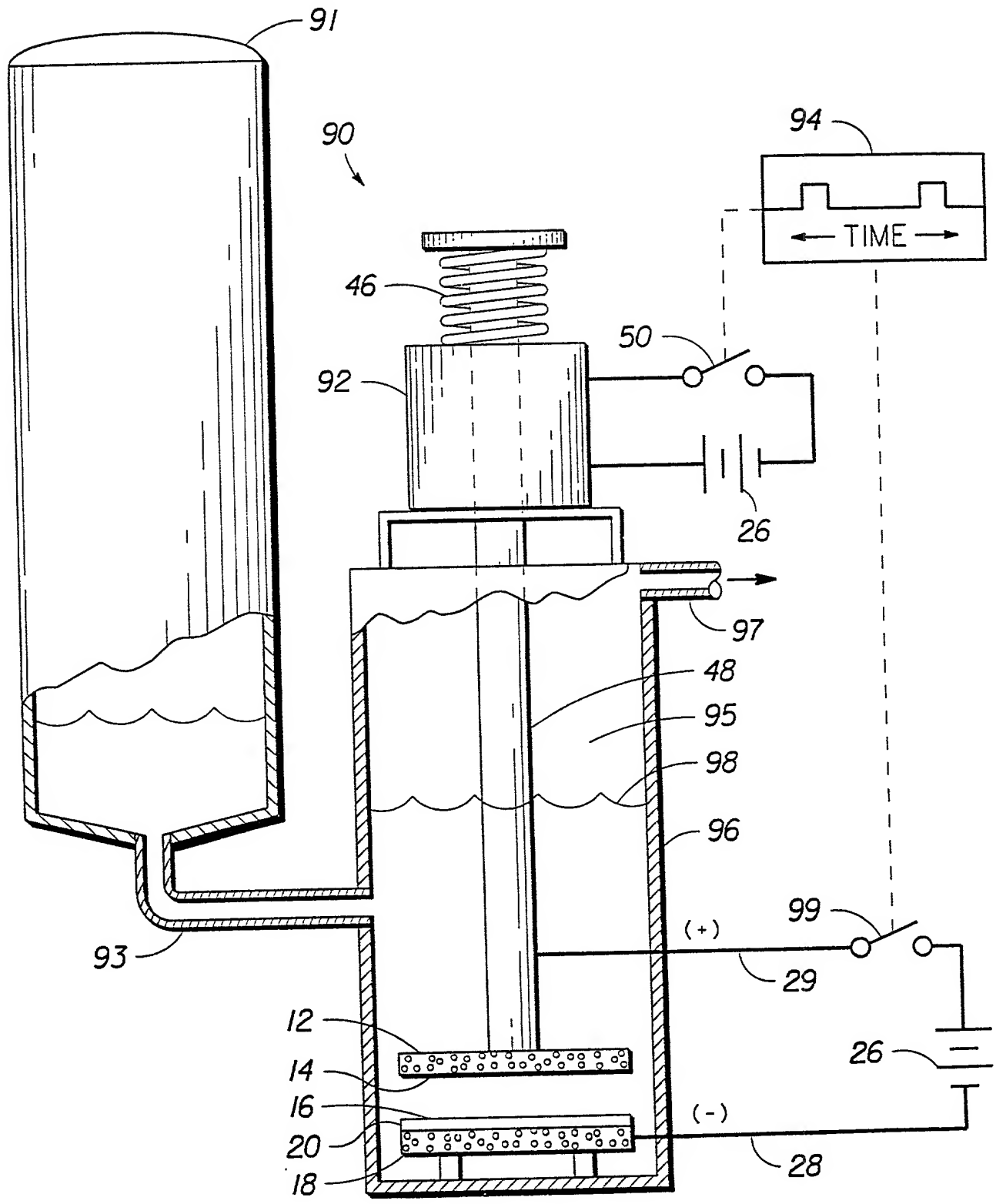

FIG. 5B

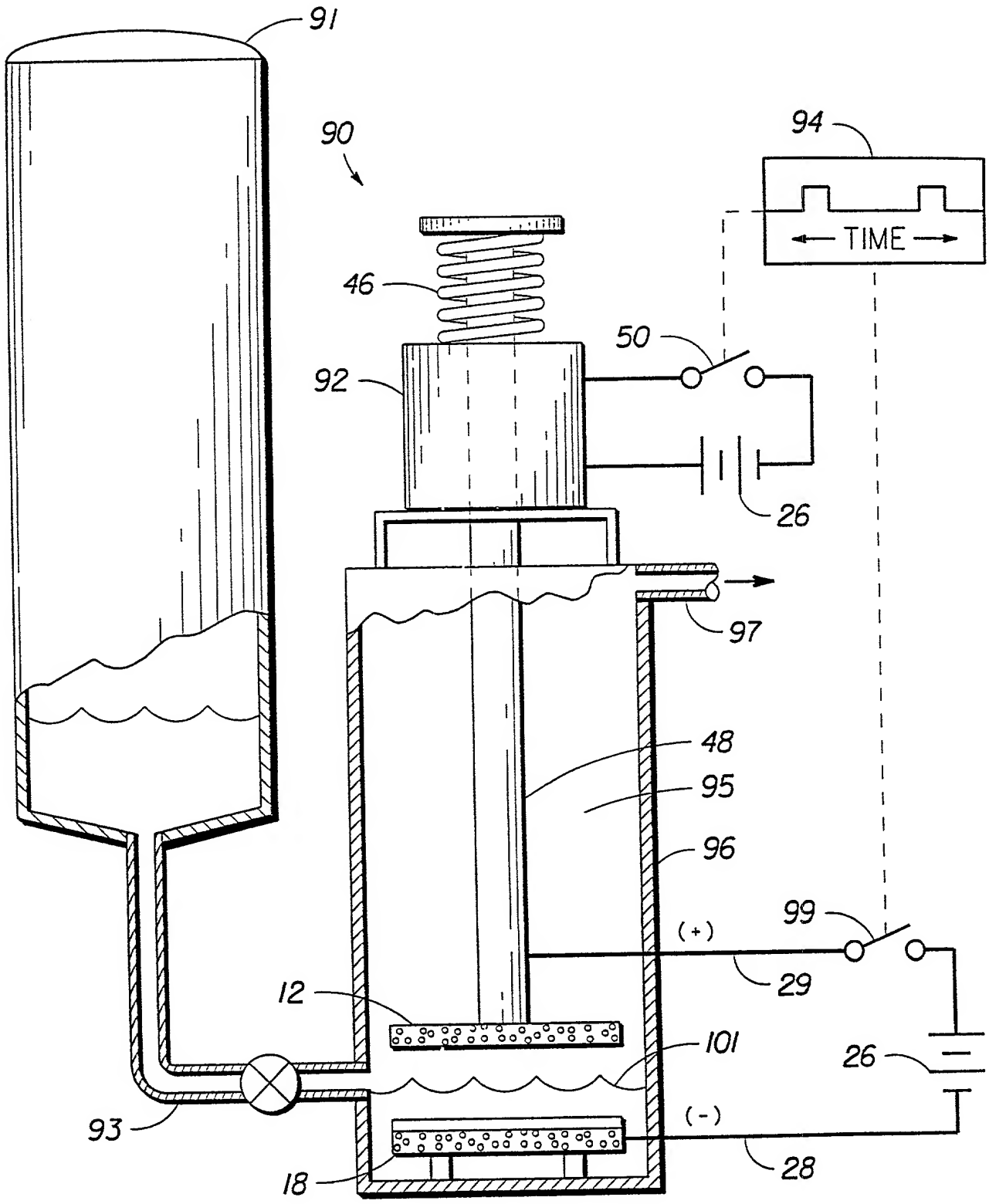

FIG. 5C

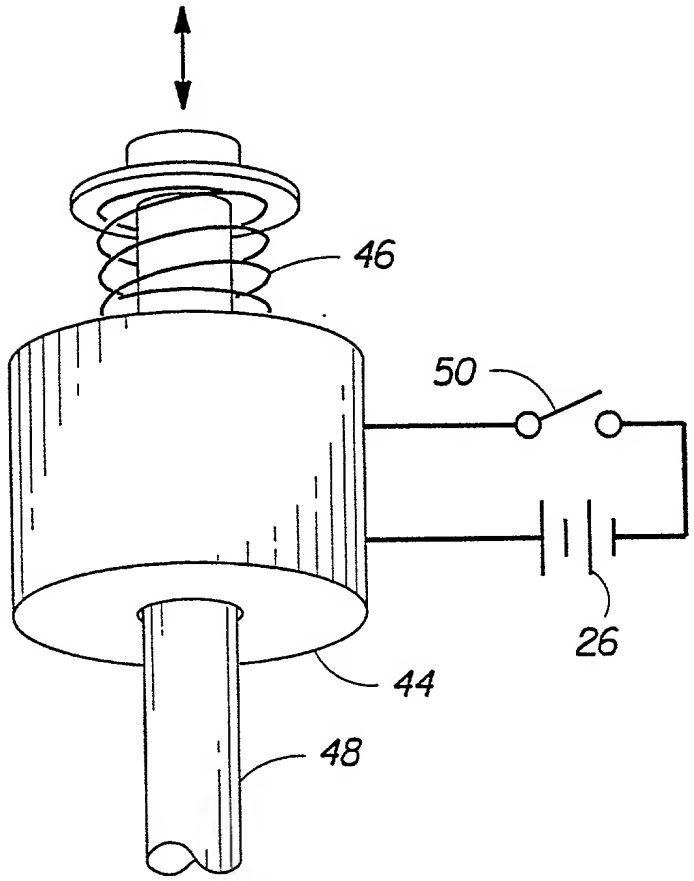

FIG. 6A

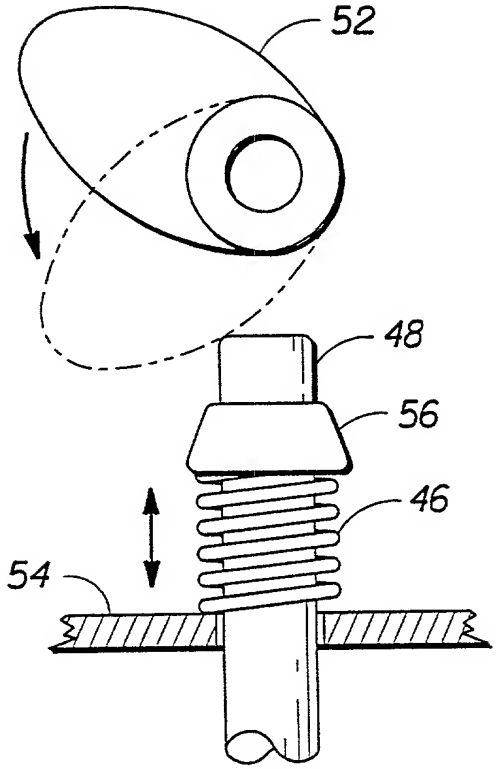

FIG. 6B

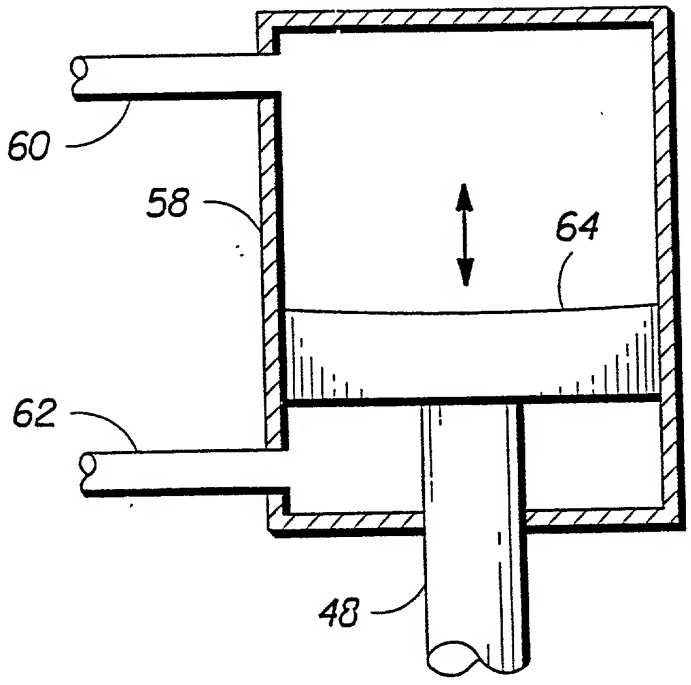

FIG. 6C

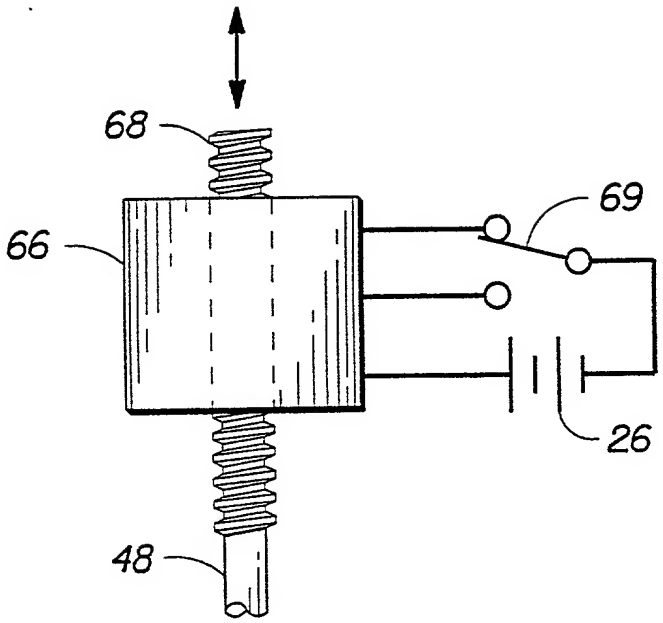

FIG. 6D

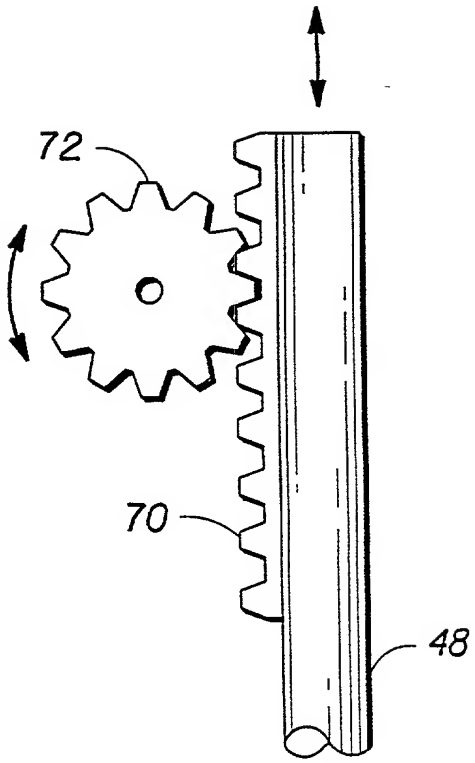

FIG. 6E

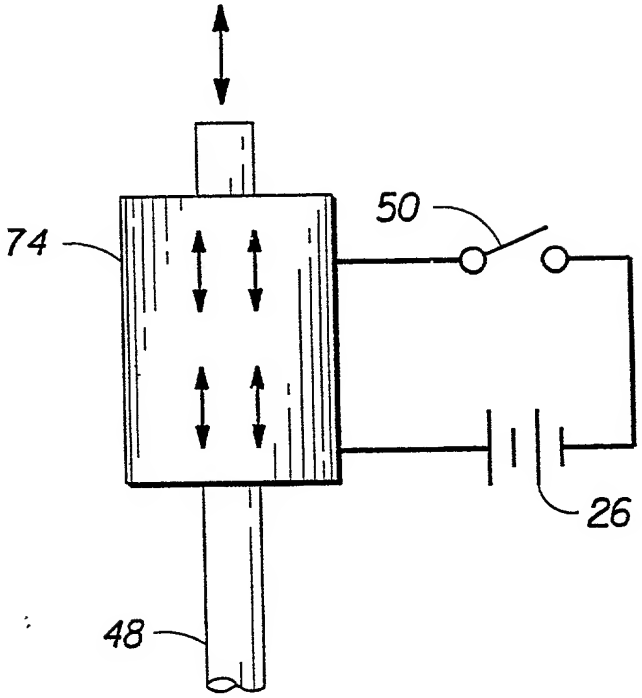

FIG. 6F

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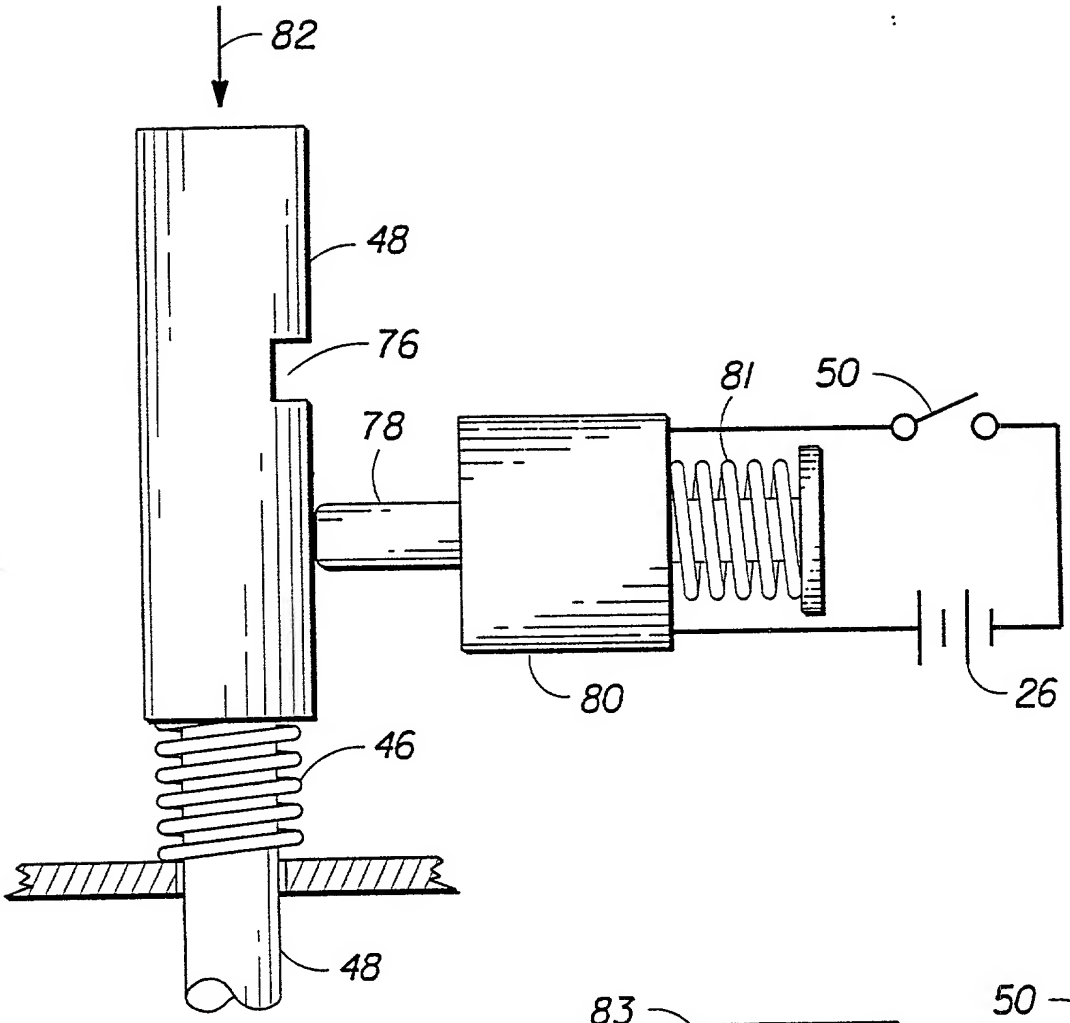

FIG. 7A

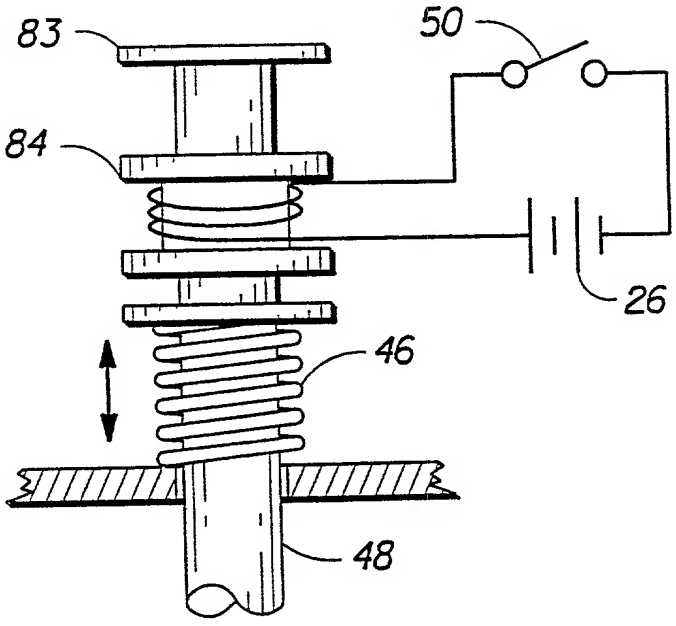

FIG. 7B

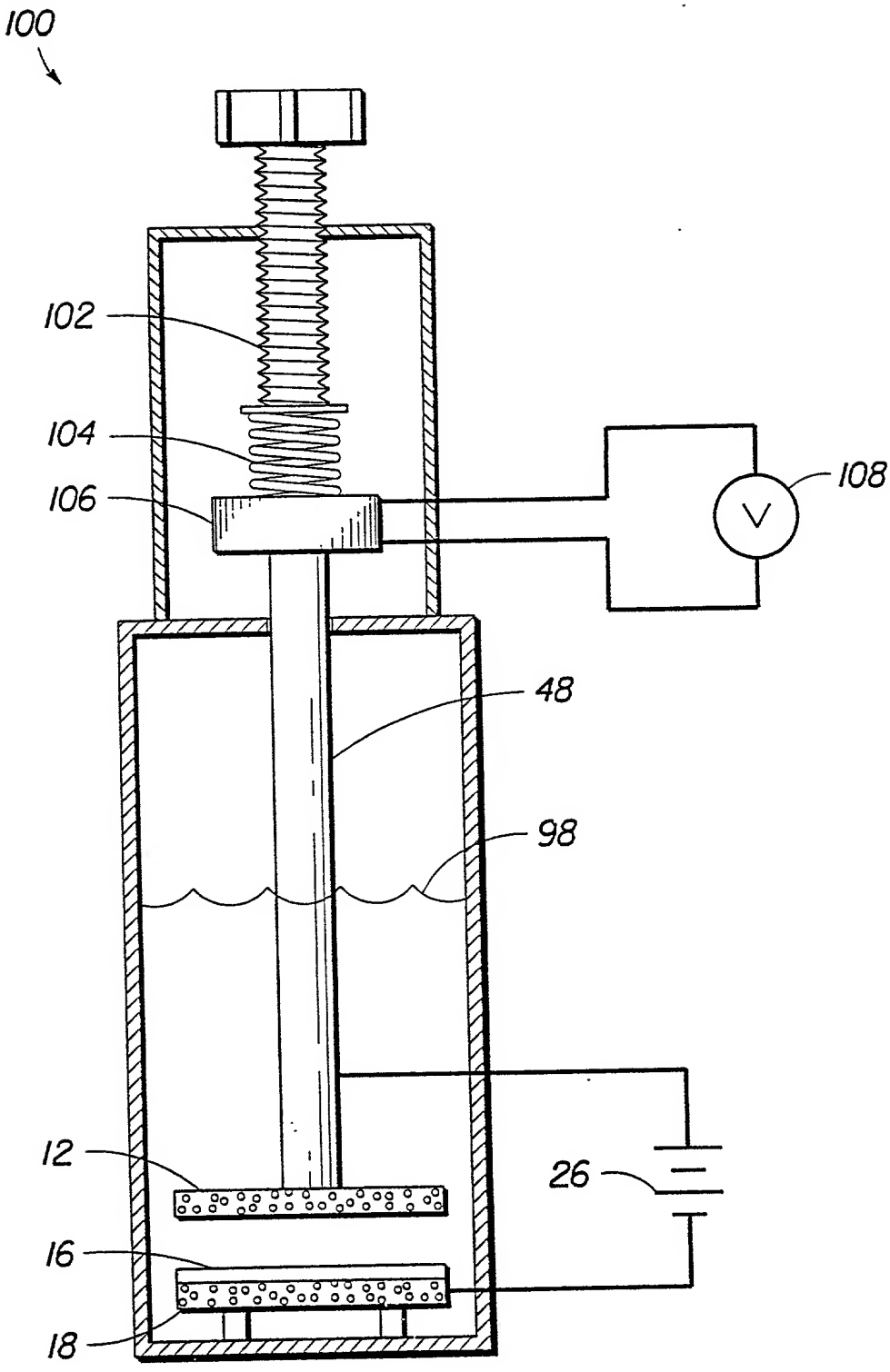

FIG. 8

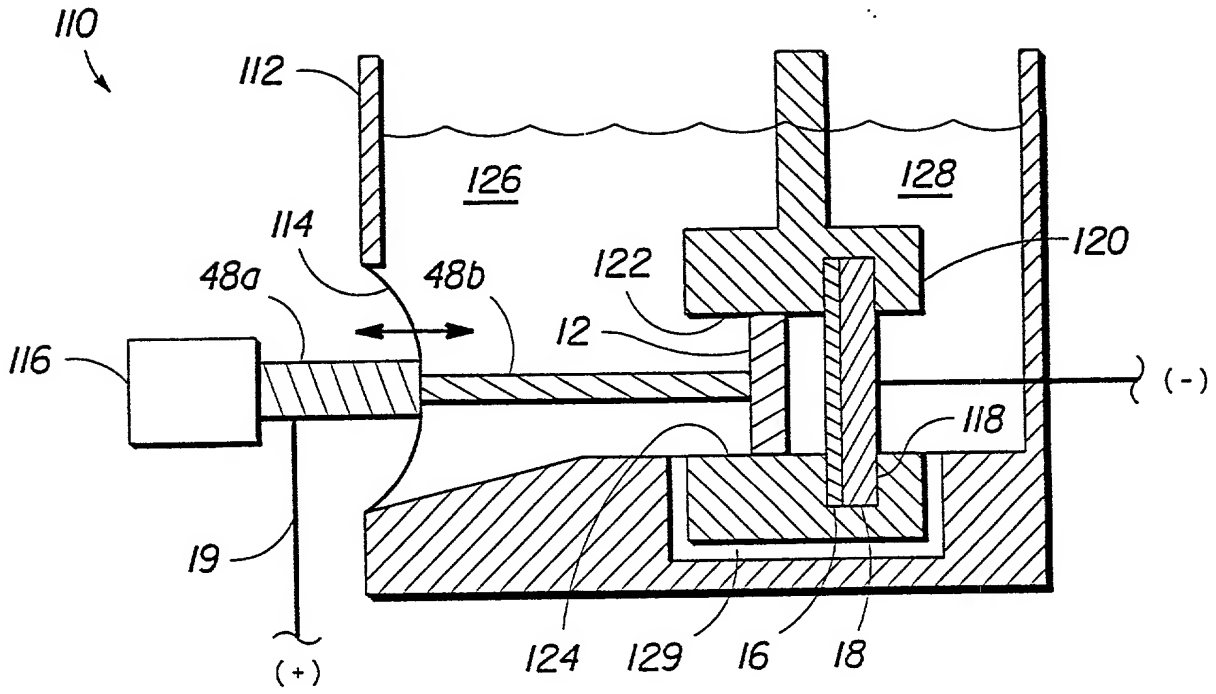

FIG. 9

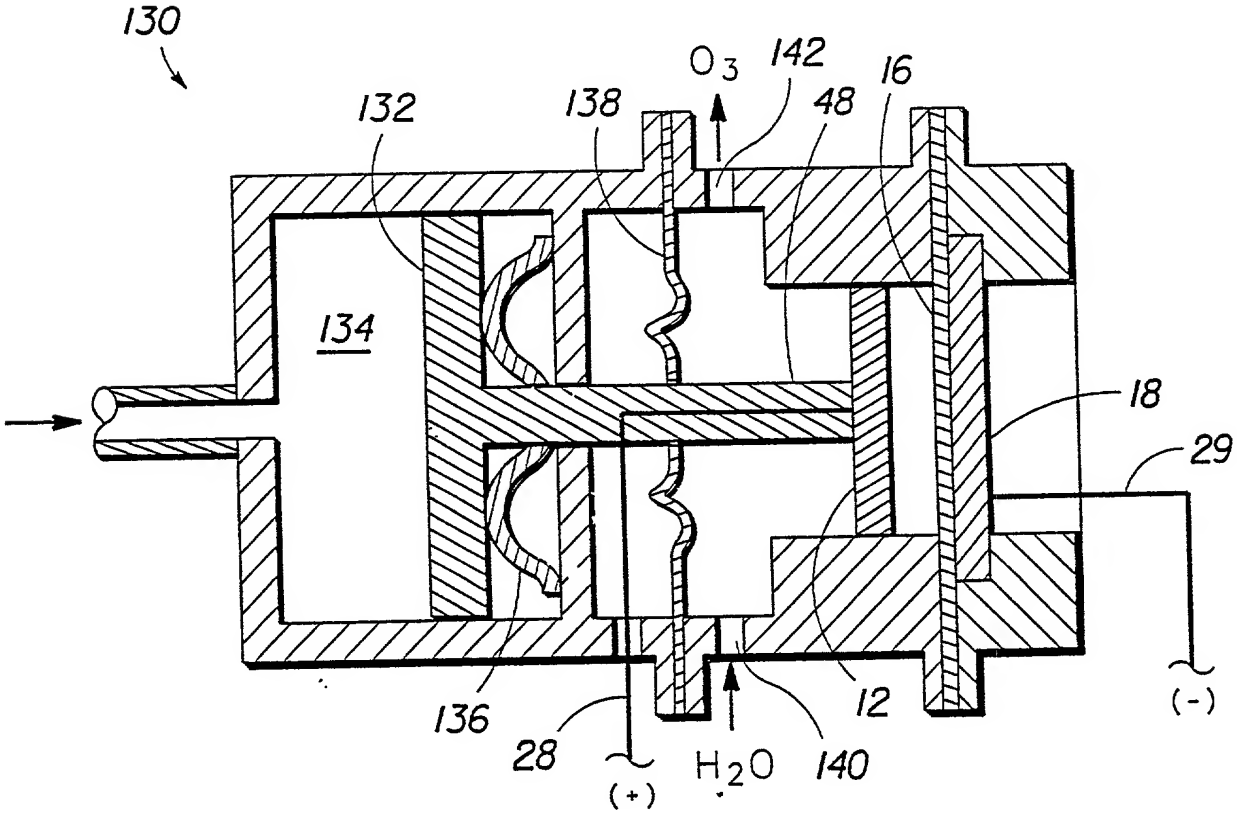

FIG. 10A

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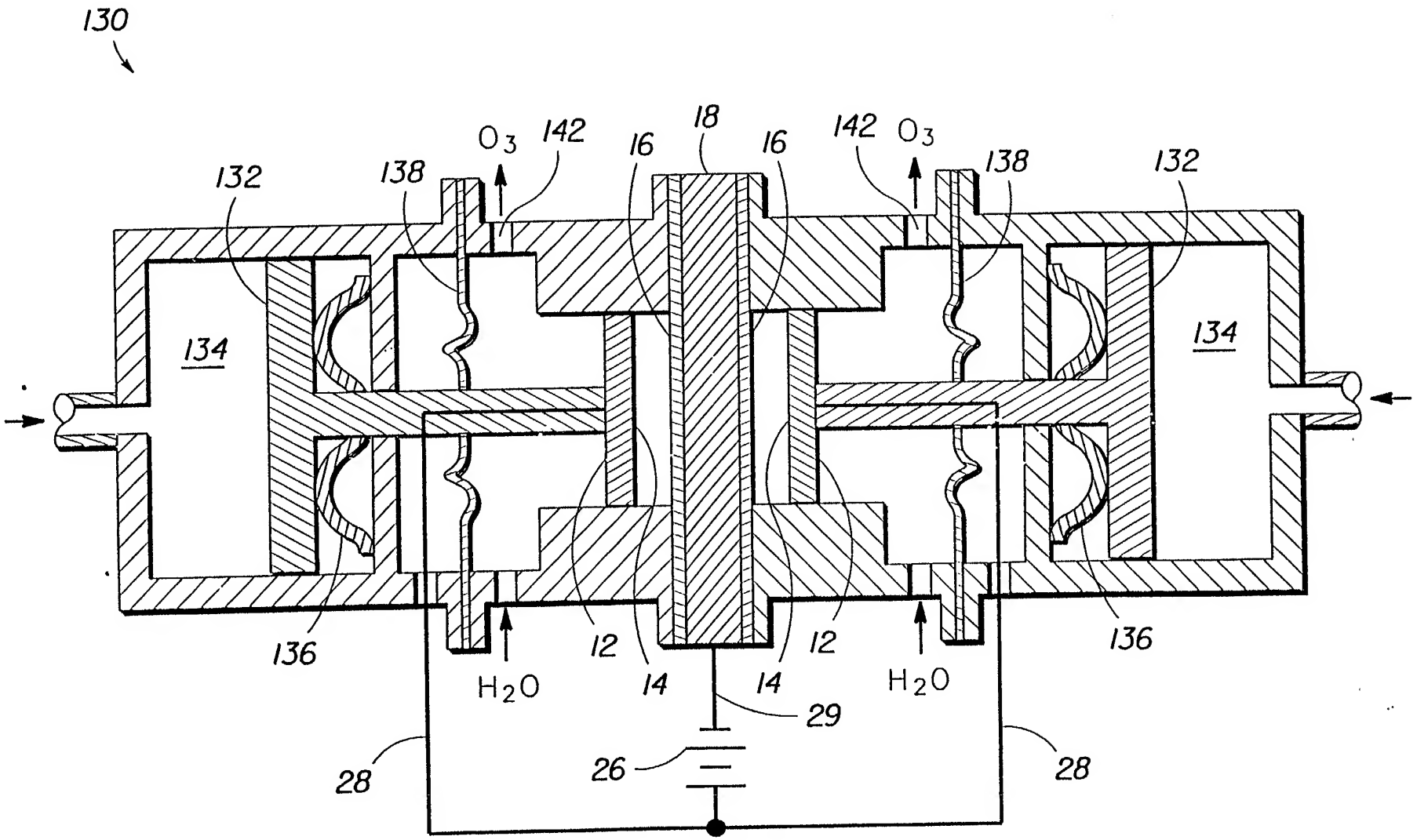
130
132
138
O_3
142
16
18
16
142
O_3
138
132
134
134
136
136
12
12
14
14
H_2O
H_2O
29
26
28
28

FIG. 10B

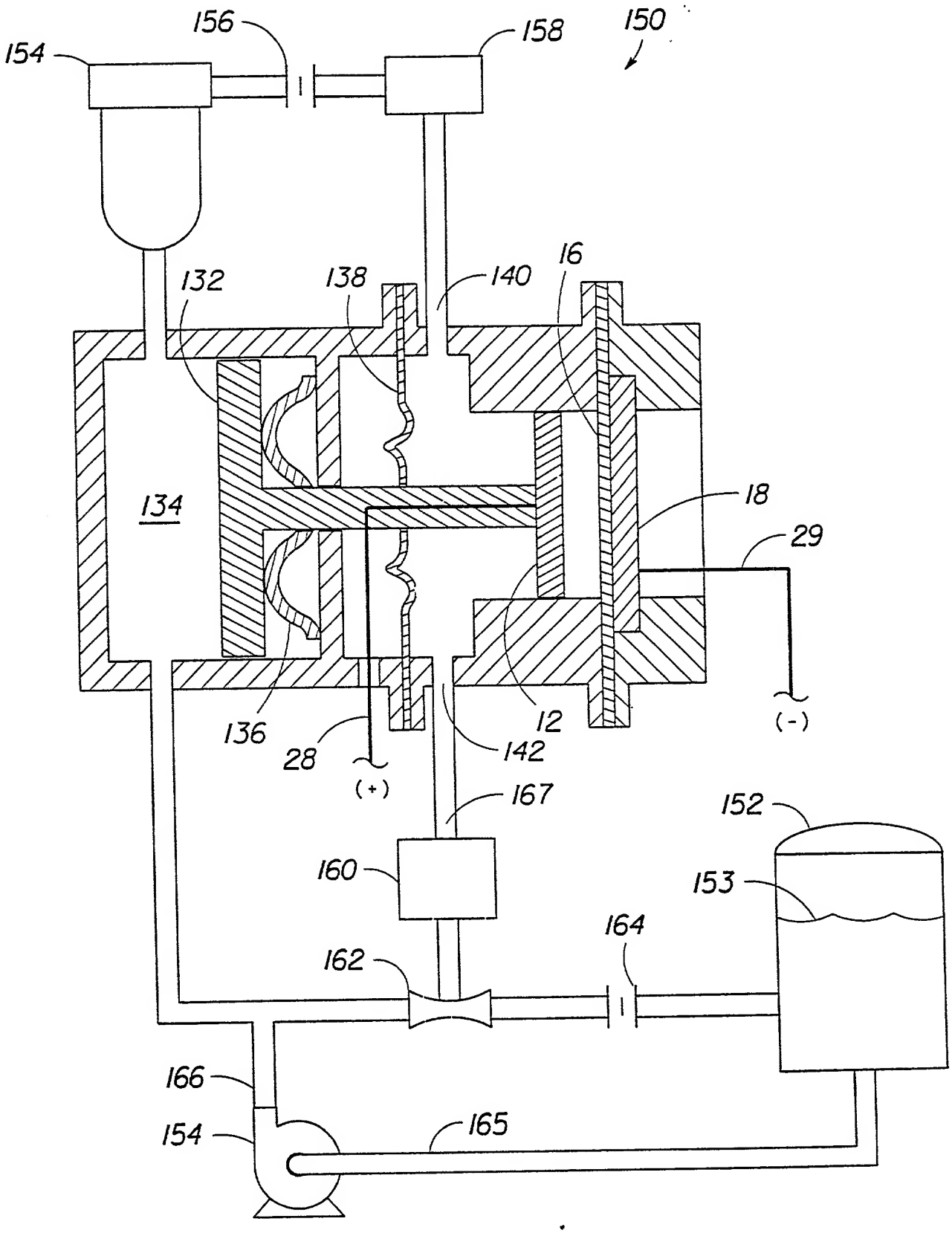
156
158
150
154
132
138
140
16
134
18
29
136
28
(+)
12
142
(-)
167
152
160
153
164
162
166
154
165

FIG. 11

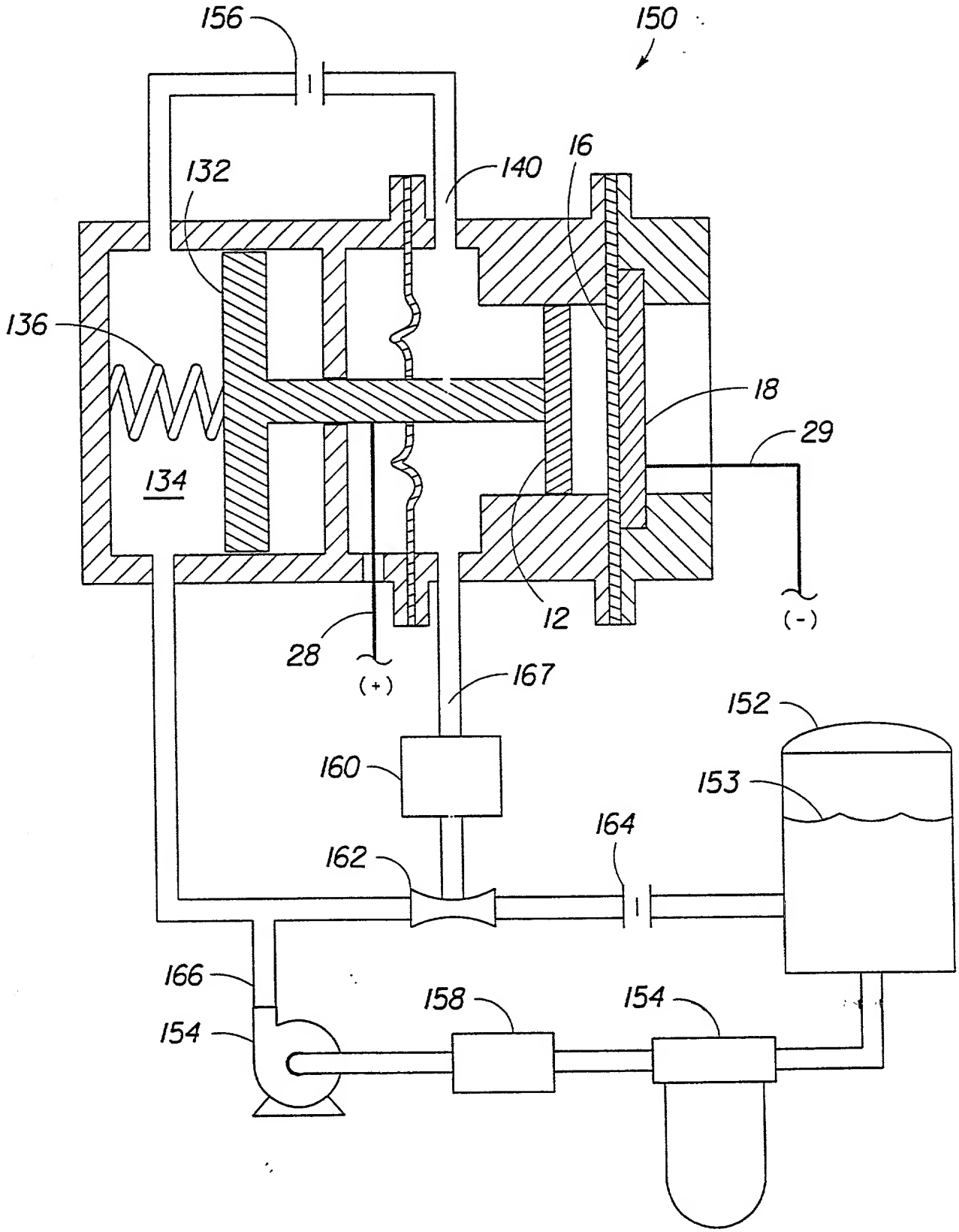
156
150
132
140
16
136
18
29
134
12
(-)
28
(+)
167
152
160
153
164
162
166
158
154
154

FIG. 12

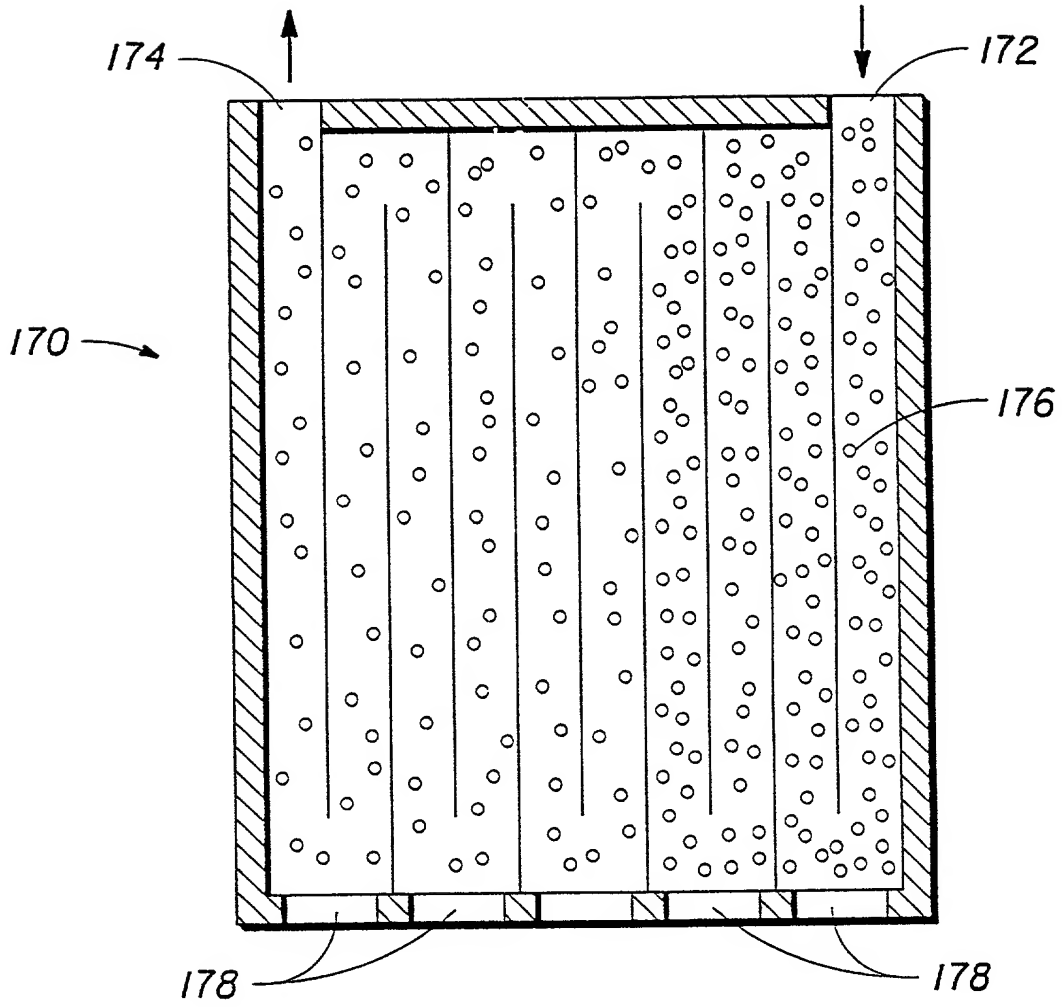

FIG. 13A

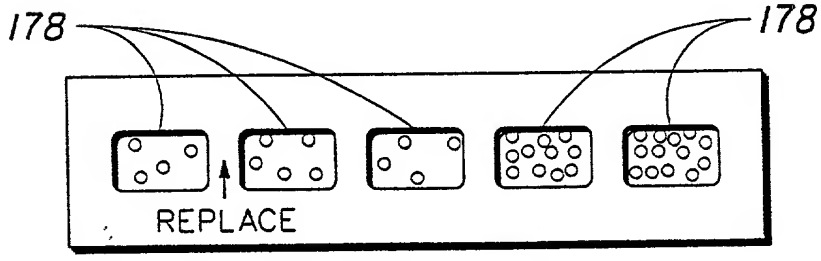

FIG. 13B

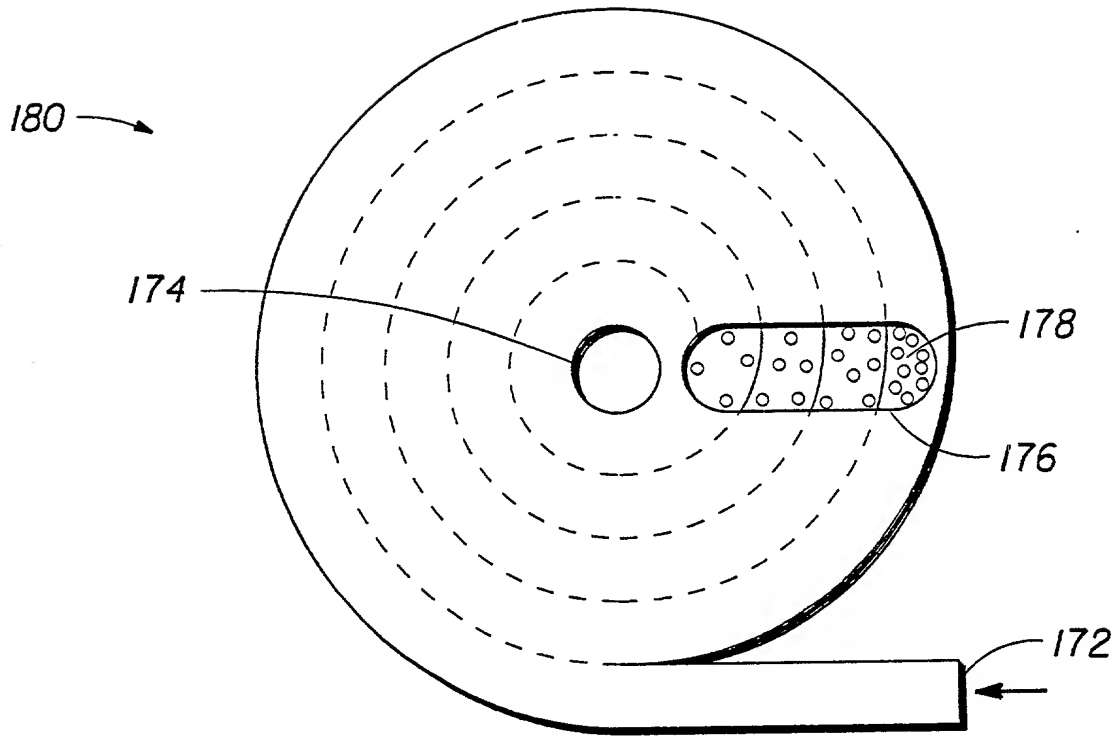

FIG. 13C

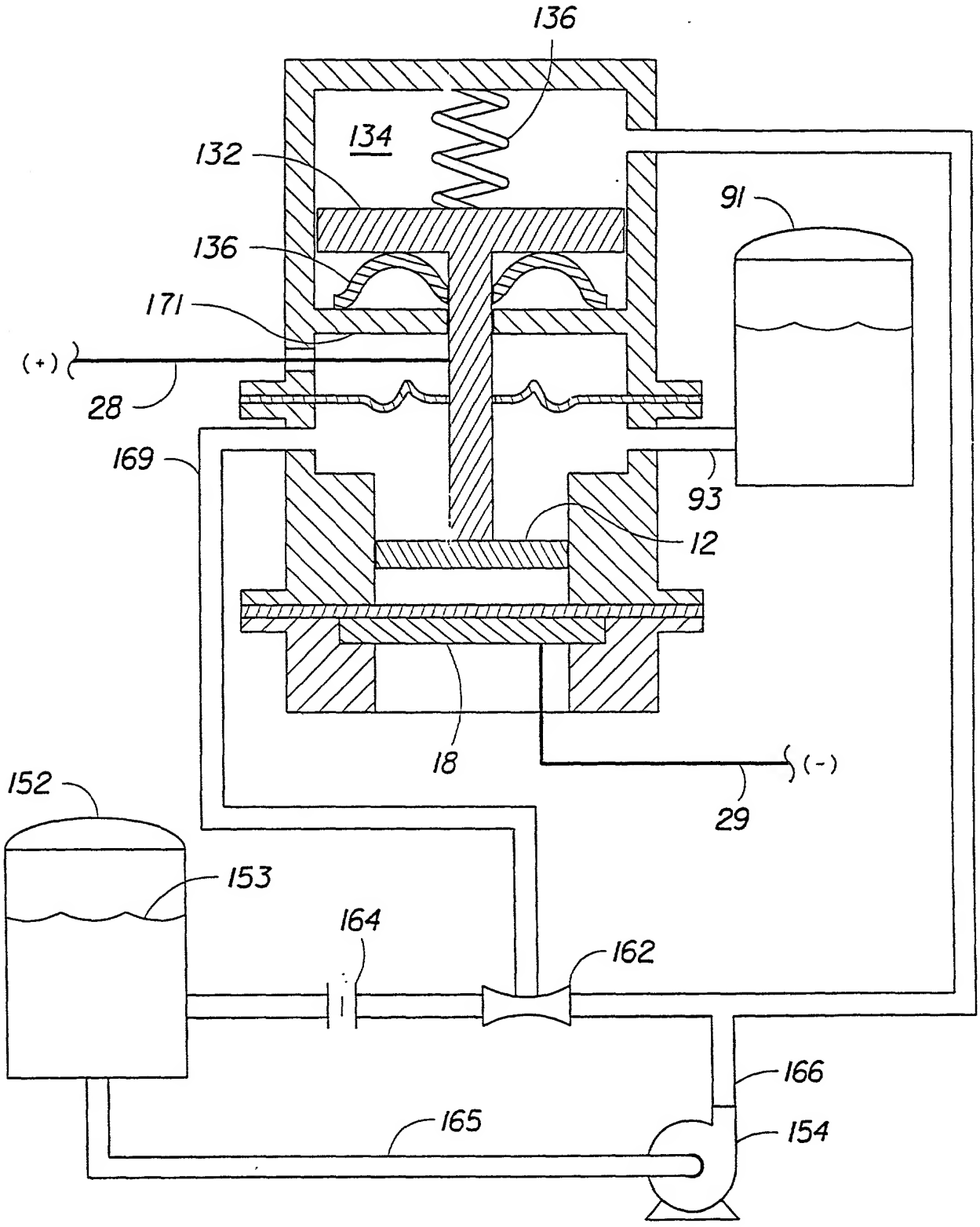
136
134
132
91
136
171
(+)
28
169
93
12
18
(-)
29
152
153
164
162
166
165
154

FIG. 14

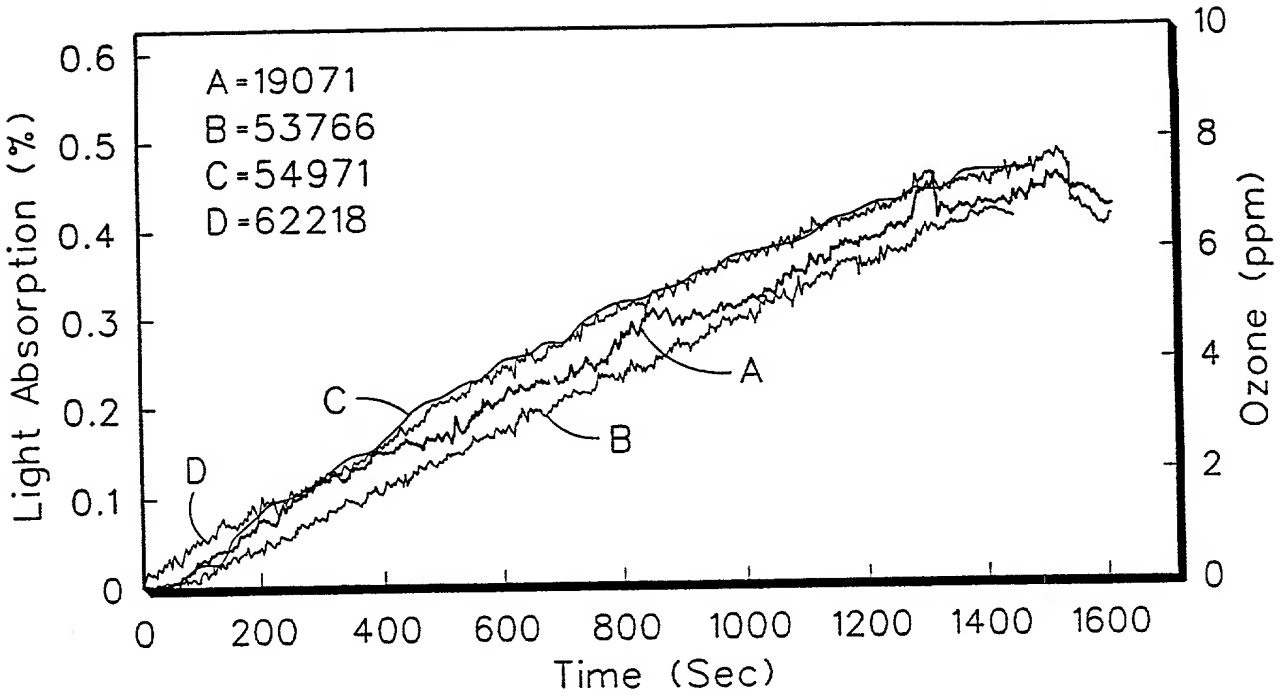

FIG. 15A

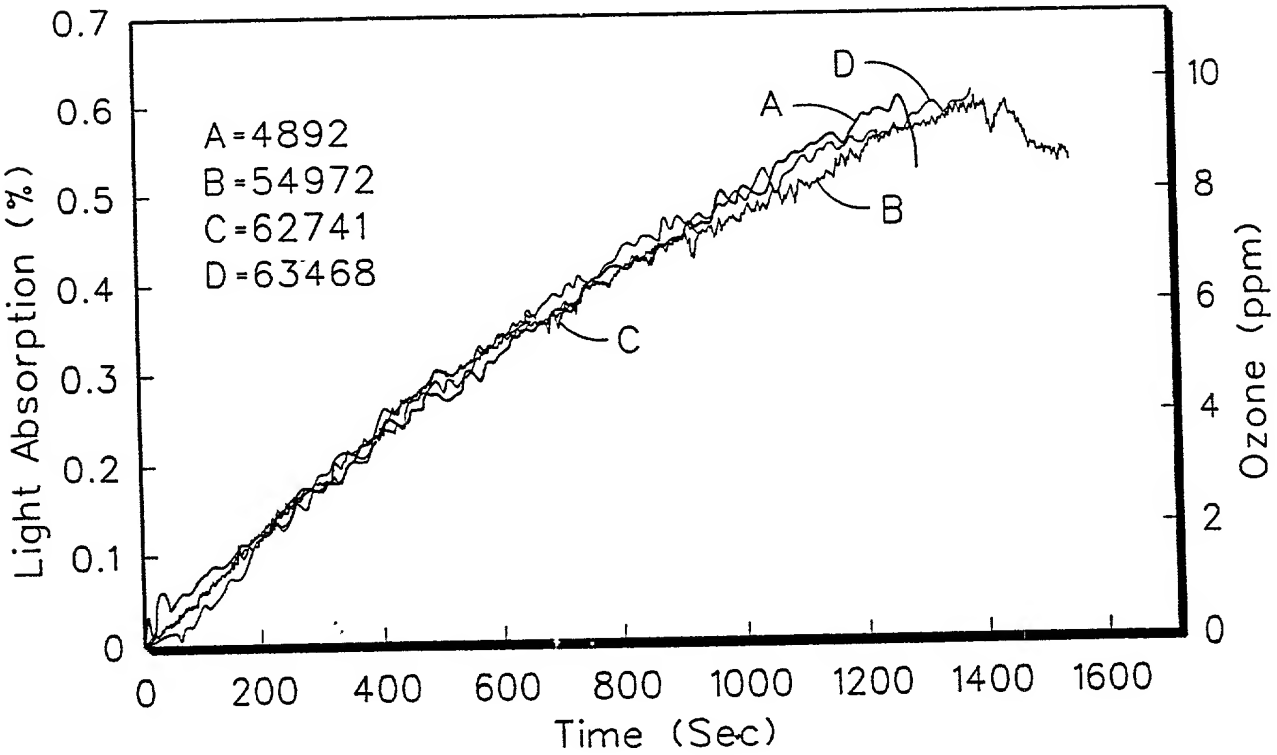

FIG. 15B

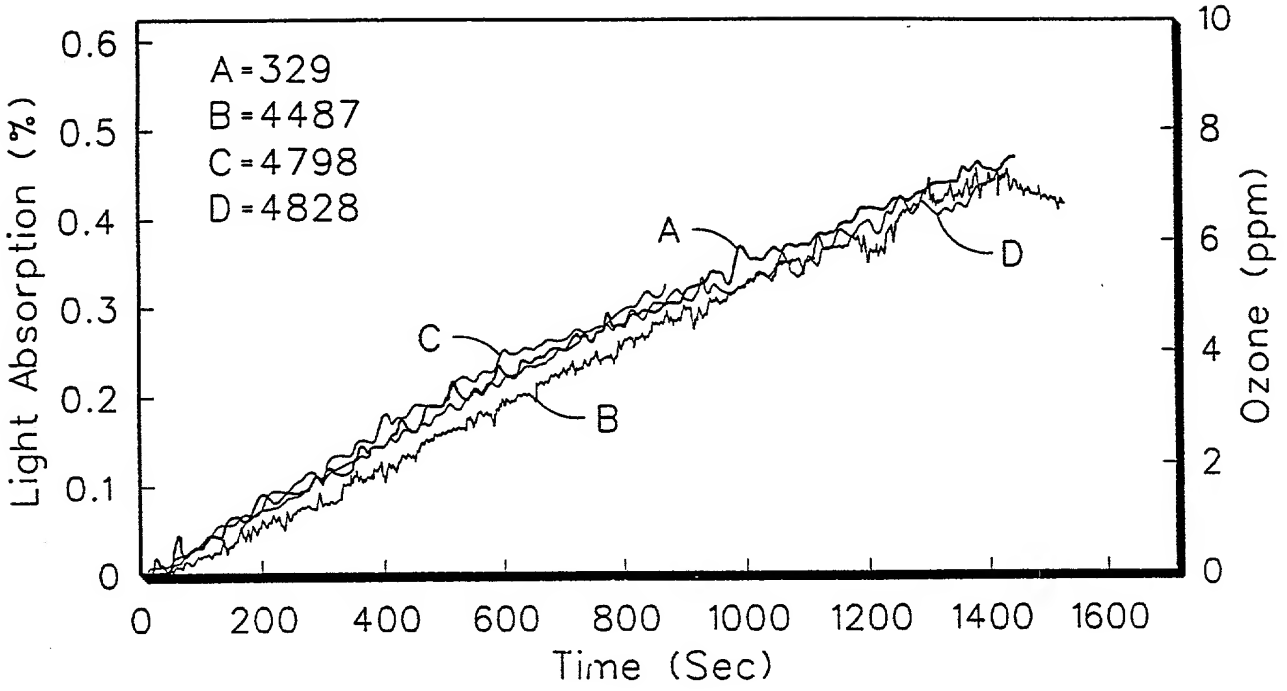

FIG. 15C

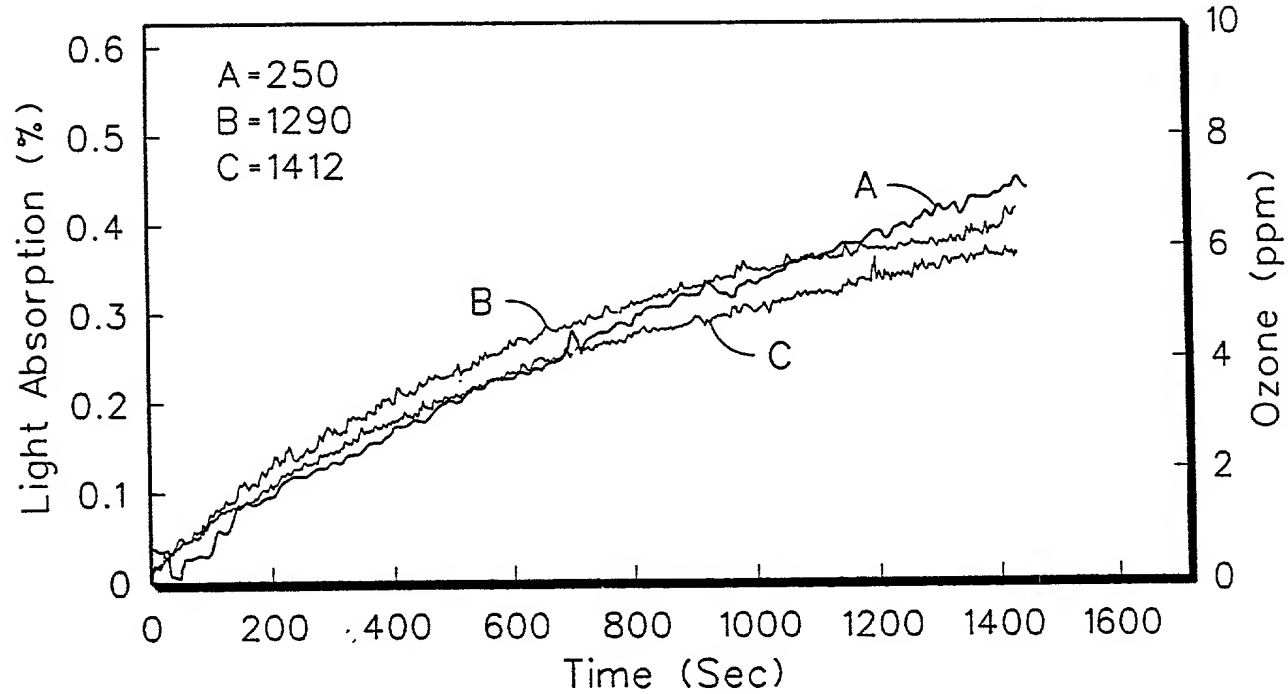

FIG. 15D

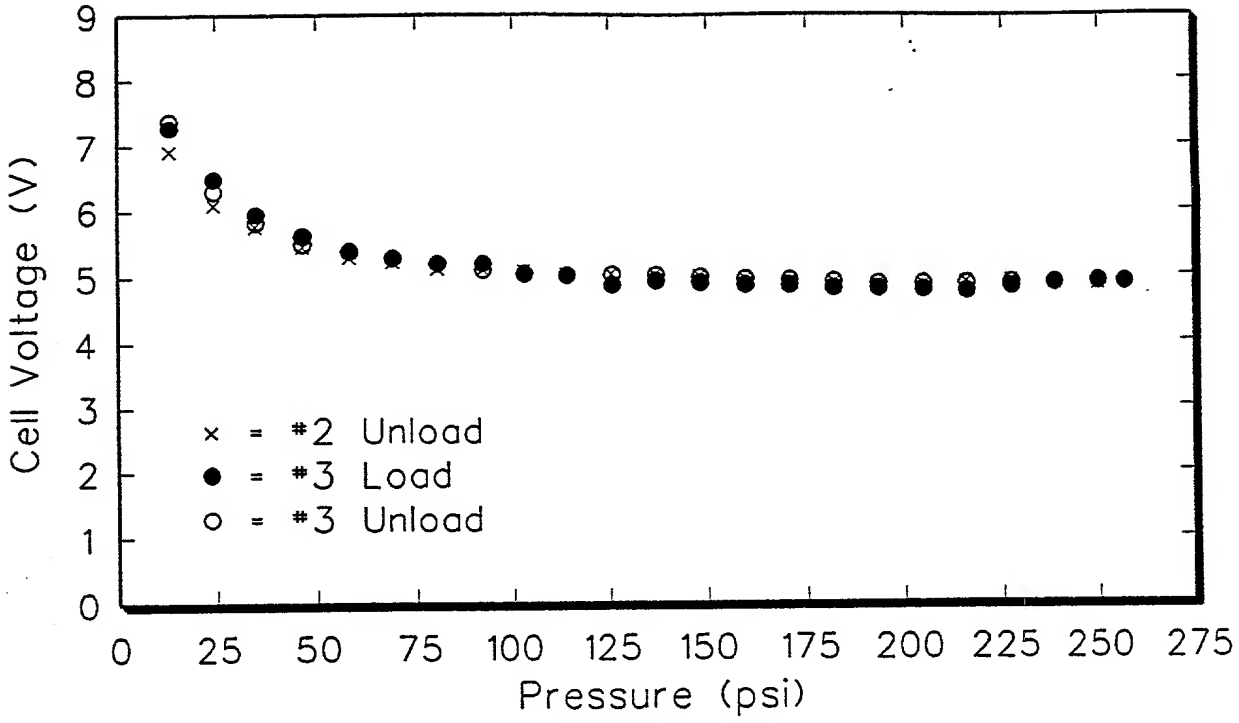

FIG. 16

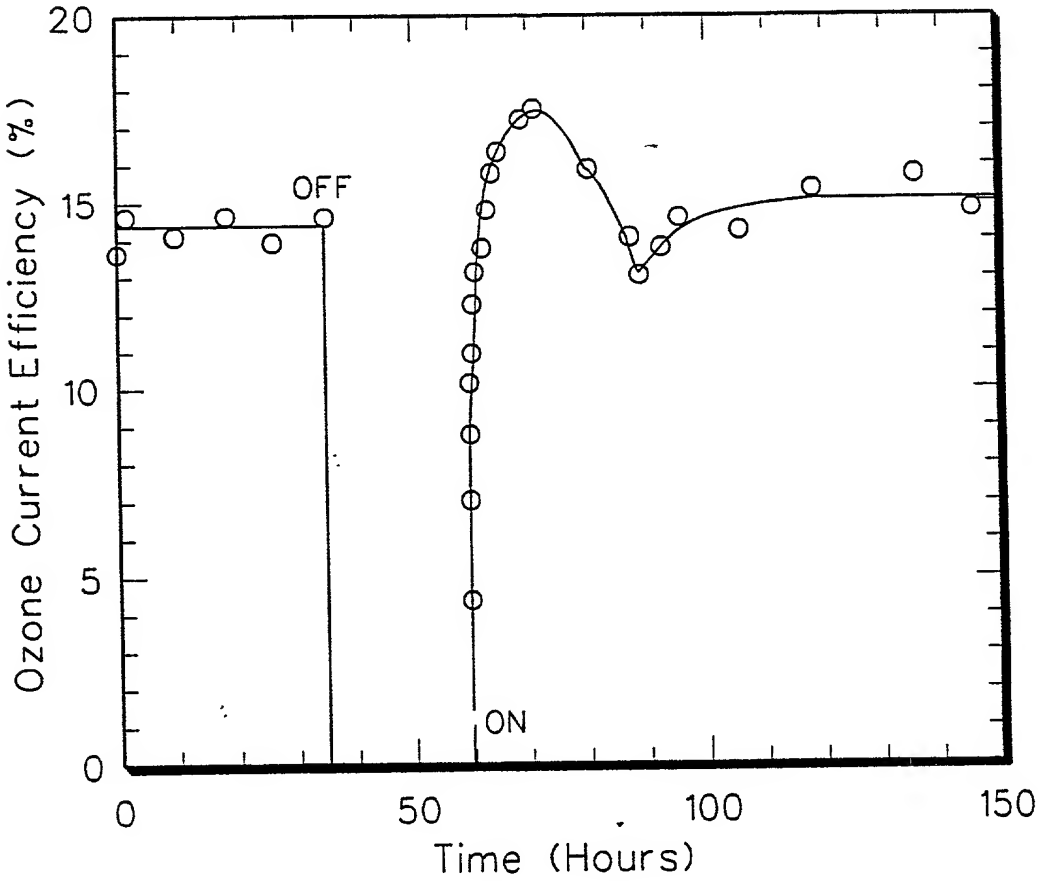

FIG. 17A

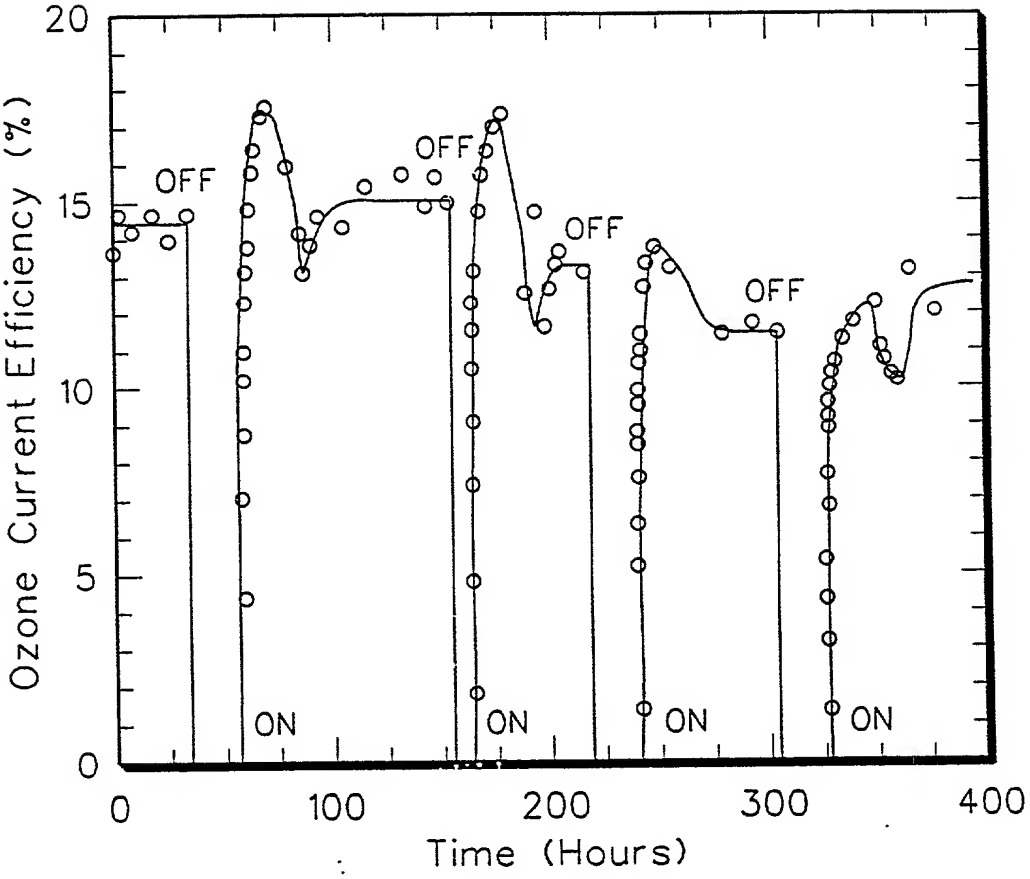
20
15
10
5
0
Ozone Current Efficiency (%)
OFF
OFF
OFF
OFF
ON
ON
ON
ON
0
100
200
300
400
Time (Hours)

FIG. 17B

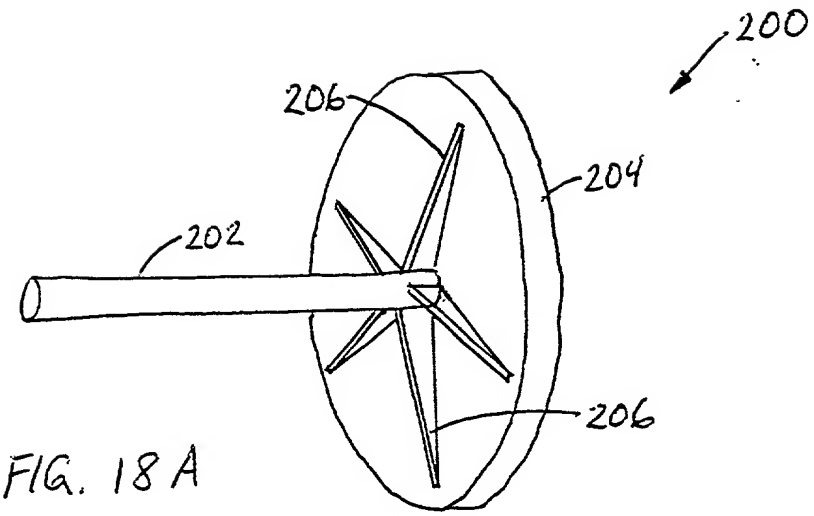

FIG. 18A

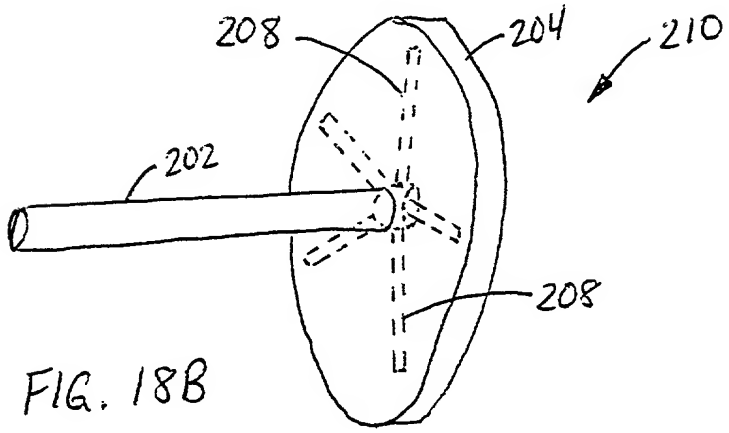

FIG. 18B

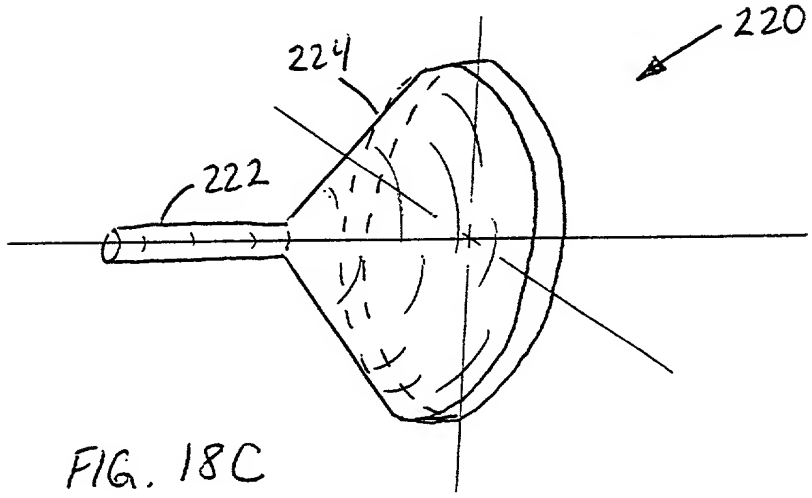

FIG. 18C

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